PA-SHT REV 5

SUBSTATION SS-75N

#14A TERM. STRIP A.T.S. -14-
TO CONTROL CIRCUIT A.T.S. AUX. CONTACTS
480V 120V EA EC SE AR1 TS
ATS-75NL

#12A TERM. STRIP A.T.S. -12-
TO CONTROL CIRCUIT A.T.S. AUX. CONTACTS
480V 120V EA EC SE AR1 TS
ATS-75NR

C-14 1"C., 16 #12
C-12 1"C., 16 #12
2 SP. W.

TERMINAL CABINET #ATS-75N

HOLD WIRE CONNECTION TO THE TERMINAL STRIP UNTIL 2A

C-1N 3/4"C., 5 #12

14A INSTALL
12A REMOVE
TEMPORARY CONNECTION

EXIST. J.B. 12A REMOVE

EXIST. ATS-75NL #14A
EXIST. ATS-75NR #12A
EXIST. TERMINAL DESIGNATIONS
EXIST. WIRES
14A REMOVE
12A REMOVE

REMOVE EXIST. WIRE AS REPLACEMENT WIRE IS CONNECTED (TYPICAL)
FROM ATS-75NL #14A
FROM ATS-75SL #15A
EXIST. WIRES TO REMAIN (TYP.)

C-SE 3/4"C., 7 #12
C-BE 3/4"C., 7 #12
1 SP. W.
3 SP. W.

SHUTTLE, ELEV.
EXIST. J.B. IN ELEV. MACH. RM

C-N 1-1/4"C., 22 #12

BANK, ELEV.
EXIST. J.B. IN ELEV. MACH. RM

FROM ATS-75NR #12A
FROM ATS-75SR #13A
EXIST. WIRES TO REMAIN (TYP.)

C-3N 3/4"C., 8 #12

RUN TO (DIP) IN CKT. BKR. #CB-R1

WIRE DESIGNATION - SEE DWG #E-98 ELEMENTARY DIAGRAM

PARALLEL EXIST. AND NEW WIRE ON #C75A. REMOVE EXIST. WIRE WHEN LAST "ATS" IS REMOVED. (ALL OTHER EXIST. WIRES ON THE TERMINAL STRIP TO BE REMOVED AS NEW WIRES ARE CONNECTED)

SEE LEGEND - CONTROL WIRE STAGING THIS DWG.

EXISTING TERMINAL DESIGNATION. TERMINAL ARRANGEMENT IS NOT AS SHOWN ON THIS DRAWING.

EXIST. WIRE (TYP.)

BLACK
ORANGE
BLUE
EXIST. WIRE TO REMAIN

C-C 1"C., 18 #12

TERMINAL CABINET #ATS-75A

EXIST. TERMINAL CABINET IN ELECT. CLOSET "C"

SUBSTATION SS-75S

#15A TERM. STRIP A.T.S. -15-
A.T.S. AUX. CONTACTS
SE AR1 TS
ATS-75SL

#13A TERM. STRIP A.T.S. -13-
A.T.S. AUX. CONTACTS
SE AR1 TS
ATS-75SR

C-15 1"C., 15 #12
C-13 1"C., 15 #12
2 SP. W.

TERMINAL CABINET #ATS-75S

C-3S 3/4"C., 8 #12

C-S 1-1/4"C., 20 #12

HOLD WIRE CONNECTION TO THE TERMINAL STRIP UNTIL 13A

C-1S 3/4"C., 4 #12

15A INSTALL
13A REMOVE
TEMPORARY CONNECTION

EXIST. J.B. 13A REMOVE

EXIST. ATS-75SL #15A
EXIST. ATS-75SR #13A
EXIST. TERMINAL DESIGNATIONS
EXIST. WIRES
15A REMOVE
13A REMOVE

3 SP. W.
2 SP. W.

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-802.071 IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 6/21/95 Kathleen A. Kelly SPEC WRITER

DATE 6/15/95 Peter K. Sweeney ENGINEER OF DESIGN

LEGEND - CONTROL WIRE STAGING - (SEE NOTE #1 DWG #E-98)

- CN - AS SWITCH IS INSTALLED CONNECT ALL WIRING EXCEPT FOR FINAL CONNECTION POINTS AS FOLLOWS:
- 14A - MAKE CONNECTIONS WHEN EXIST. ATS-75NL #14A IS REMOVED
- 12A - MAKE CONNECTIONS WHEN EXIST. ATS-75NR #12A IS REMOVED
  FOR STAGING SEE DWG. #E-48 LOAD TRANSFER STAGING FOR SS-75N
- 15A - MAKE CONNECTIONS WHEN EXIST. ATS-75SL #15A IS REMOVED
- 13A - MAKE CONNECTIONS WHEN EXIST. ATS-75SR #13A IS REMOVED
  FOR STAGING SEE DWG. #E-60 LOAD TRANSFER STAGING FOR SS-75S

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THE PORT AUTHORITY OF NY & NJ

Peter K. Sweeney
ENGINEERING PROGRAM MANAGER
WORLD TRADE CENTER

CHIEF ELECTRICAL ENGINEER

Engineering Department
Design Divisions

The World Trade Center
Electrical/HVAC
Upgrade Program

Title

TOWER ONE AND TWO
LOW VOLTAGE
SUBSTATIONS
CONSTRUCTION AND
INSTALLATION

ELECTRICAL

SUBSTATION
SS-75N & SS-75S
AUTOMATIC TRANSFER SWITCH
CONNECTION DIAGRAM

No.	Date	Revision	Approved

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

LEAHY/FISCHER | LEAHY | A.S.
Designed by | Drawn by | Checked by

Date 5-1-95 Scale NONE

Contract Number WTC 802.071 Drawing Number E-98